PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

International application No. International filing date (day/month/year) Priority date (day/month/year) 20.10.2003	Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416				
Description Description	BV-1060 WO	International filing date (da	w/month/wear)	Priority date (day/month/year)		
International Patent Classification (IPC) or national classification and IPC See Supplemental Box Applicant 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersade earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. II Basis of the report Box No. II Priority Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. VI Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Date of submission of the demand Date of completion of this report 13.05.2005 Name and mailing address of the IPEA/ISE Patenta- och registreringsverket Authorized officer Box Toch Patental Box Authorized officer			y,,,,on.,,youry			
Applicant BIOVITRUM AB et al 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 9 sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. I Basis of the report Box No. II Priority Box No. IV Lack of unity of invention Box No. IV Lack of unity of invention Box No. VI Certain defects in the international application Box No. VII Certain defects in the international application Date of submission of the demand Date of completion of this report 13.05.2005 Name and mailing address of the IPEA/SE Patents—och registreringsverket Box Dox Dox Dox Dox Dox Dox Dox Dox Dox D	101/ 201001/ 001000					
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	Box 5055 S-102 42 STOCKHOLM		Eva Johan	sson/MP		
	Facsimile No. +46 8 667 72 88					

Form PCT/IPEA/409 (cover sheet) (April 2005)

International application No.

PCT/SE2004/001508

Supplemental Box

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Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

CO7D 471/04 (2006.01)

A61K 31/404 (2006.01)

A61K 31/437 (2006.01)

A61K 31/438 (2006.01)

A61K 31/4439 (2006.01)

A61K 31/496 (2006.01)

A61P 25/00 (2006.01)

A61P 3/04 (2006.01)

A61P 3/10 (2006.01)

CO7D 209/08 (2006.01)

C07D 401/12 (2006.01)

C07D 403/04 (2006.01)

CO7D 471/20 (2006.01)

International application No.

PCT/SE2004/001508 Box No. I Basis of the report With regard to the language, this report is based on: the international application in the language in which it was filed a translation of the international application into which is the language of a translation furnished for the purposes of: international search (Rules 12.3(a) and 23.1(b)) publication of the international application (Rule 12.4(a)) international preliminary examination (Rules 55.2(a) and/or 55.3(a)) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description: as originally filed/furnished pages received by this Authority on pages* received by this Authority on pages* the claims: as originally filed/furnished pages as amended (together with any statement) under Article 19 pages* received by this Authority on pages* received by this Authority on pages* the drawings: as originally filed/furnished pages received by this Authority on pages* received by this Authority on a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. 3. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.

PCT/SE2004/001508

Во	x No. 1		Priority
1.		This i	report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time the requested:
			copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2.		inval	report has been established as if no priority had been claimed due to the fact that the priority claim has been found id (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the ant date.
3.	Addi	tional	observations, if necessary:
l	The	pr	iority is considered valid.
			·

International application No.

PCT/SE2004/001508

Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the e	ntire international application			
Clain	ns Nos. 14-16			
because:				
the s	aid international application, or the said claims Nos. 14-16 e to the following subject matter which does not require an international preliminary examination (specify):			
	Tr Rule 67.1.(iv).: Methods for treatment of the human or			
animal				
method	ls.			
	description, claims or drawings (indicate particular elements below) or said claims Nos. o unclear that no meaningful opinion could be formed (specify):			
	claims, or said claims Nos are so inadequately supported he description that no meaningful opinion could be formed (specify):			
no no	international search report has been established for said claims Nos.			
	neaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time nit:			
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it. pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.			
th A	meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within a prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in the exaministrative Instructions, and such tables were not available to the International Preliminary tamining Authority in a form and manner acceptable to it.			
	e tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the chnical requirements provided for in the Annex C-bis of the Administrative Instructions.			
☐ se	ee Supplemental Box for further details.			

D11) WO 2004000828 A1 (publ. 31.12.2003)

International application No.

			PCT/SE2004/0013		
Во	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims	4,	YES	
	, ,	Claims	1-3. 5-13. 17-20	NO	
	Inventive step (IS)	Claims		YES	
	niventive step (15)	Claims	1 12 17 20	NO	
		Claims	1-13. 17-20		
	Industrial applicability (IA)	Claims	1-13, 17-20	YES	
		Claims		NO	
2.	-	-			
	The following document	ments a	re cited in the search report:		
	D1) WO 0232863 A1				
	D2) WO 0236562 A2				
	D3) WO 0241889 A2				
1	D4) WO 02059088 A1				
	D5) WO 02085853 A2				
	D6) WO 02085892 A1				
	D7) WO 02102774 A1				
l	D8) WO 03104193 A1	(publ.	18.12.2003)		

invention relates The claimed tetrahydrospiro{piperidine-2,7'-pyrrolo[3,2-b]pyridine} derivatives and to novel indole derivatives useful in the treatment of 5-HT6 receptor-related disorders. Mentioned are obesity, type 2 diabetes and CNS related disorders disorders.

D1-D7 relate to indole derivatives useful in the treatment of 5-HT6 receptor-related disorders. Mentioned disorders are obesity, type 2 diabetes and CNS related disorders.

The compounds in D1-D7 seem to be included in the scope of the present application when U, W1, W2, W3, Z and Y are carbon, when the binding between U and W1 and between W2 and W3 are

.../...

D9) WO 03066632 A1 D10) WO 02100822 A1

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/SE2004/001508

Supplemental Box

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double-bonds and when P is -S(O)2R1 . Some of the shown substitutions in R4 position in the application and in D1-D7 are the same. The known structure elements in the cited documents are the same as structure elements 1, 8, 9 and 18 mentioned in claim 1 on page 44 and structure elements 1, 3, 6, 8 and 10 mentioned in claim 1 on page 45 (structures 18 and 10 are the same) in the present application. Claims 1-3, 5-13 and 17-20 lack novelty in those parts cited above.

Present claims 1-13 and 17-20 relate to an extremely large number of possible compounds. Support or disclosure within the meaning of PCT Article 6 is to be found, however, for only a very small proportion of the compounds. The claimed provisions are unclear as there is no information in the description about what kinds of compounds are included in the claims. Only a few tetrahydrospiro{piperidine-2,7'-pyrrolo[3,2-b]pyridine} derivatives and indole derivatives are prepared.

From the description, it is clear that only a few compounds concerning 1',4',5',6'-tetrahydrospiro{piperidin-2,7'-pyrrolo[3,2-b]pyridine} derivatives are prepared, when U is carbon, R4 and R4' make a heterocyclic ring and when W1 is nitrogen. These compounds differ from the known in the ring structure.

D2 is considered to be the closest prior art and discloses indole derivatives substituted with a piperazine group in the position for R4. The compounds from D2 are included in the general scope of the application. The claimed compounds differ from the known prepared compound 7 in that P is NHSO2Ph instead of SO2Ph.

It is obvious from the application that an NHSO2Ph group is on an equality with an SO2Ph group.

In the light of the prior art and having regarded the present description and claims, the problem underlying the present application is to find further compounds having affinity for the 5-HT6 receptor.

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/SE2004/001508

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

The solution proposed in claims 1-13 and 17-20 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.

From the description, it is known that all the compounds which are included in the application have the same therapeutical use and the compounds are in the same category.

It is common practice to synthesise analogues of known compounds. In the present case, D1-D7 as well as this application, may serve as examples.

The selected novel compounds must show an unexpected and advantageous effect over the prior art. No such effect has been demonstrated for the present compounds. In the absence of relevant /biological/activity data to the support of the compounds, no inventive step can be acknowledged for the entire scope of the claims. The basis for recognition of inventive step of the present compounds over the closest prior art might lie in the assessment that, particularly in the realm of biologically active compounds, even small structural modifications may cause dramatic changes in activity.

However, the structural differences between the compounds of the prior art D1-D7 and the present compounds are at least as great as the structural difference between the latter compounds and the present, structurally more remote compounds. Thus, claims 1-13 and 17-20 lack inventive step.

D9 and D10 disclose the general state of the art and are not considered to be particular relevant.

Documents D8 and D10 were published after the claimed priority date, on presumption that the priority is valid, this document is not considered as prior art.

International application No.

PCT/SE2004/001508

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Present claims 1-13 and 17-20 relate to an extremely large number of possible compounds. Support or disclosure within the meaning of PCT Article 6 is to be found, however, for only a very small proportion of the compounds. The claimed provisions are unclear as there is no information in the description about what kinds of compounds are included in the claims. Besides, no compounds are prepared from that part of the claims. Only a few tetrahydrospiro{piperidine-2,7'-pyrrolo[3,2-b]pyridine} derivatives and indole derivatives are prepared.